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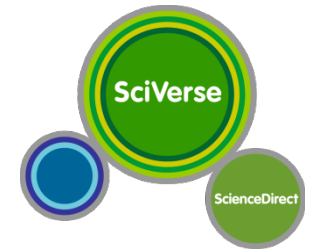
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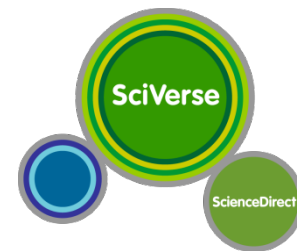
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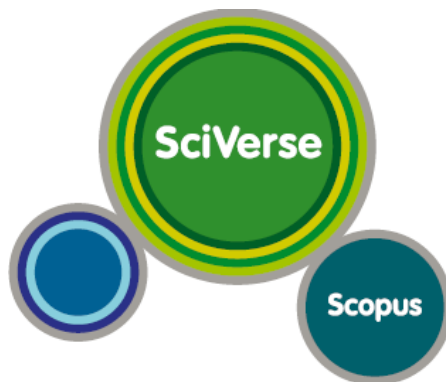
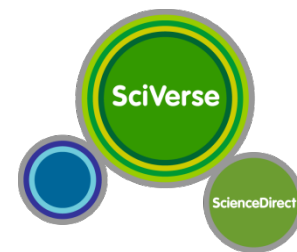
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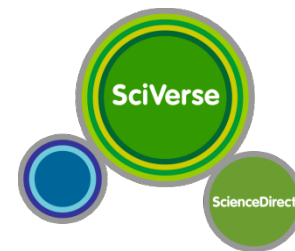
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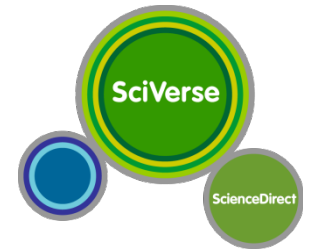
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Heung Yong Jin, Wei Jing Liu, Ji Hyun Park, Hong Sun Baik, Tae Sun Park
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- Incretin mimetics and DPP-IV inhibitors for the treatment of type 2 diabetes** Review Article
Drug Discovery Today, Volume 10, Issue 10, 15 May 2005, Pages 703-710
Loretta L. Nielsen
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Incretin mimetics and DPP-IV inhibitors are a potential new class of therapeutic agents that work through innovative mechanisms to attack diabetes on a fundamental level and offer the potential to improve the quality of life for patients with the disease.

文献列表

- An aminomethylpyrimidine DPP-IV inhibitor with potent antidiabetic activity**
Biorganic & Medicinal Chemistry Letters, Volume 14, Issue 10, 10 July 2004, Pages 3573-3578
Jens-Uwe Peters, Daniel Hunziker, Holger Fischer, Manfred Kansy, Sijja Vveber, Stephane Kritter, Aranka Müller, Angelina Wallier, Fabienne Ricklin, Markus Boehringer, Sonia Maria Poli, Miklos Csato, Bernd-Michael Loeffler
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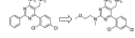
Phospholipidosis liability and CYP3A4 inhibition were addressed in a series of DPP-IV inhibitors.

- 3-[2-(2S)-2-Cyano-pyrrolidin-1-yl]-2-oxo-ethylamino]-3-methyl-butylamide analogues as selective DPP-IV inhibitors for the treatment of type-II diabetes**

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Arnon Amir*, Gal Ashoruf*, Savitha Srinivasan*

* IBM Almaden Research Center, 650 Harry Road, San Jose, CA 95051, USA
* IBM Haifa Research Laboratory, Haifa, Israel
Received 20 July 2003; accepted 1 April 2004
Available online 22 August 2004

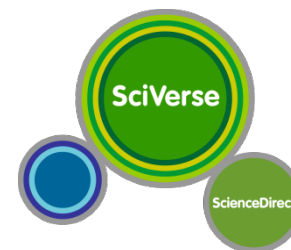
Abstract

How many times did you attend a conference talk in a parallel track and wish you had a second chance to see it? Or did you attend a conference talk in a parallel track and wish you had a second chance to see a few talks from a recent conference you did not attend? Video proceedings, which contain videos of all the conference talks, would be of great value in these cases. With recent progress in digital video, streaming technology, large storage, Internet and especially video indexing and retrieval technology, video proceedings finally become a reality. The key challenges are efficient production with minimal labor and easy, intuitive, and rapid user access to talks and though for snippet of information. This paper describes an application that allows a nearly automatic, real-time creation of video proceedings. All the talks are captured in video, and are automatically indexed by speech recognition and video analysis tools. First text search in speech and efficient multi-view video browsing are combined with the conference table of contents and graph on biography to make fully searchable and browsable video proceedings. The paper covers the work flow, processing steps, and technical details of the video representation, visualization, and user study results. The system was used to produce video proceedings for three local conferences.

Keywords: Video proceedings; Video on demand; Video indexing; Information retrieval; Resource selection; Distance learning; Video generation; Multimedia browsing

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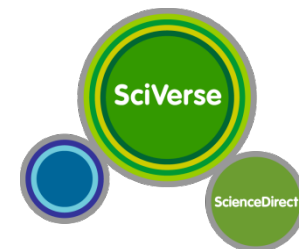
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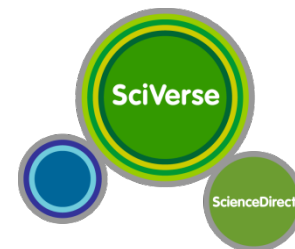
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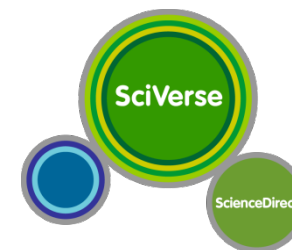
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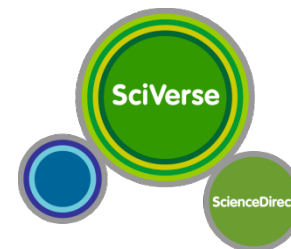
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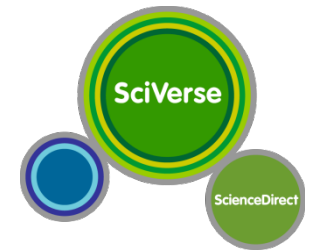
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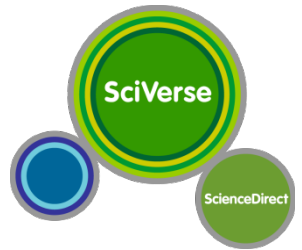
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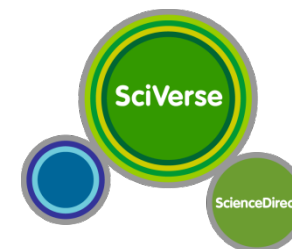
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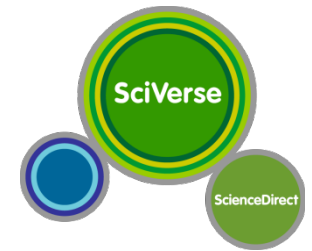
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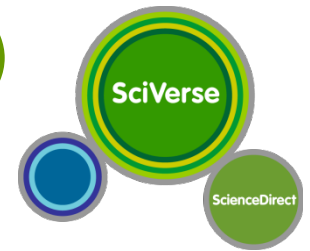
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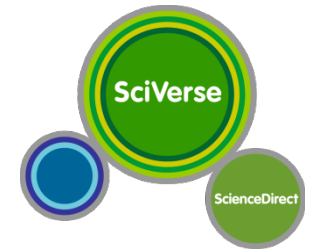
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The role of the *HNF4α* enhancer in type 2 diabetes: variants of the *HNF4α* enhancer are not a common cause of susceptibility to type 2 diabetes

Simon M. S. Mitchell, Anna L. Gloyn, Katharine R. Owen, Andrew T. Hattersley and Timothy M. Frayling

Department of Diabetes and Vascular Medicine, University of Exeter, Barrack Road, Exeter, EX2 5DW, UK
Received 7 February 2002; revised 2 April 2002; accepted 2 April 2002. Available online 26 June 2002.

Abstract

The genetic causes of type 2 diabetes are not well understood. The disease has been linked to chromosome 20q12 - q13.1 a region which harbors the transcription factor *HNF4α*. Mutations in the coding region of *HNF4α* cause maturity onset diabetes of the young, an autosomal dominant form of diabetes, but do not account for the linkage to this region. An enhancer element has recently been characterized 6 kb 5' of the *HNF4α* P1 promoter containing binding sites for the transcription factors HNF1, HNF4, HNF3, and C/EBP, which are overlapped by glucocorticoid consensus sites. We hypothesized that variation in the enhancer element disrupts *HNF4α* expression in the liver and increases susceptibility to type 2 diabetes. We screened for variants of the enhancer element in 39 white UK young onset diabetic subjects, giving >95% power to identify variants with minor allele frequencies of >5%. No variants of the enhancer element were found in this population. We conclude that variation in the *HNF4α* enhancer element is not a common cause of susceptibility to type 2 diabetes.

Author Keywords: Enhancer element, Hepatic nuclear factor 4 alpha, type 2 diabetes

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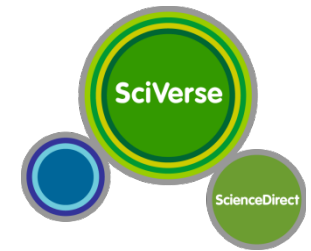
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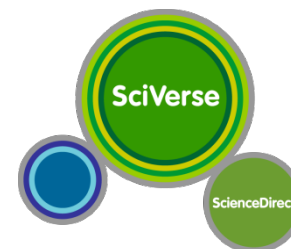
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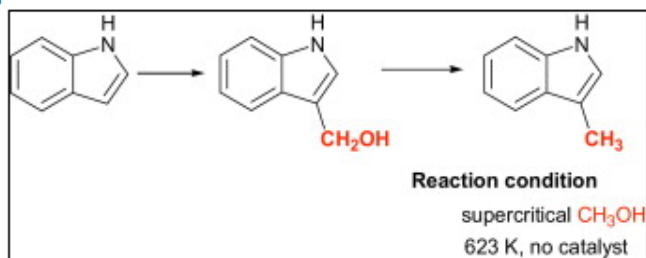
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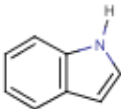


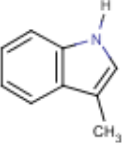

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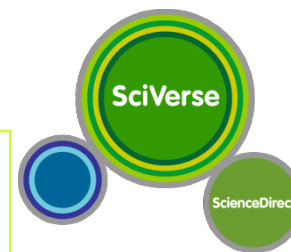
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Carbonate preservation patterns at the Cear a Rise – Evidence for the Pliocene super conveyor

Michael Frenz   , R udiger Henrich  and Bj orn Zychla 

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Received 19 July 2005; revised 19 June 2006; accepted 23 July 2006. Available online 25 September 2006.

Abstract

Enhanced Atlantic overturning during the Pliocene was first proposed almost 10 yrs ago. Evidence for this Pliocene super conveyor scenario has been collected using a number of proxies (e.g., benthic $\delta^{13}\text{C}$, Nd isotopic composition of manganese crusts). The present study contributes to the existing evidences by using carbonate dissolution and current vigour history of early Pliocene sediments from the Cear a Rise (ODP Sites 927 and 929). In order to reveal carbonate dissolution history, a number of commonly used and newly established proxies were applied, i.e., sand and carbonate contents, foraminifer fragmentation index, Bulloides Dissolution Index and carbonate silt grain-size distributions. Terrigenous silt grain-size distributions were used to unravel variations in relative current strength and sediment input to the two sites. Overall good carbonate preservation at the shallow Site 927 (3314 m water depth) shows that this level was bathed in North Atlantic Deep Water throughout the early Pliocene. The contrastingly poor carbonate preservation record of the deeper Site 929 (4358 m water depth, at present exposed to Antarctic Bottom Water) is frequently interrupted by phases of good carbonate preservation. These results indicate that the depth of the calcite lysocline was mainly tied to present level (~ 4200 m water depth), and sometimes even dropped to water depths greater than 4360 m due to even more enhanced circulation. Surprisingly the expansion of NADW is not clearly reflected by an increase in current speed as shown by continuously fine terrigenous grain size.

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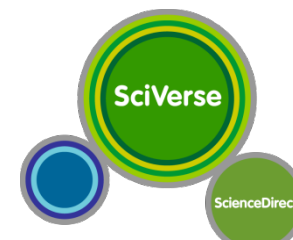
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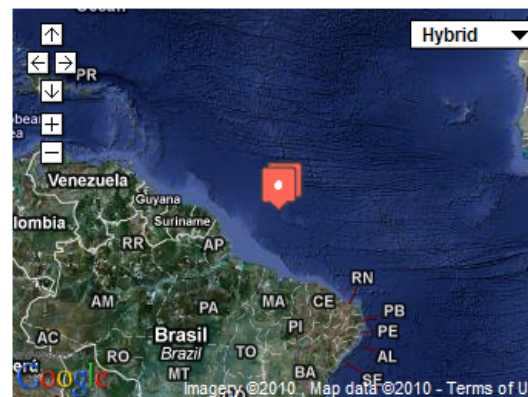
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Abstract: Enhanced Atlantic overturning during the Pliocene was first proposed almost 10 yrs ago. Evidence for this Pliocene super conveyor scenario has been collected using a number of proxies (e.g., benthic d13C, Nd isotopic composition of manganese crusts). The present study contributes to the existing evidences by using carbonate dissolution and current vigour history of early Pliocene sediments from the Ceará Rise (ODP Sites 927 and 929). In order to reveal carbonate dissolution history, a number of commonly used and newly established proxies were applied, i.e., sand and carbonate contents, foraminifer fragmentation index, Bulloides Dissolution Index and carbonate silt grain-size distributions. Terrigenous silt grain-size distributions were used to unravel variations in relative current strength and sediment input to the two sites. Overall good carbonate preservation at the shallow Site 927 (3314 m water depth) shows that this level was bathed in North Atlantic Deep Water throughout the early Pliocene. The contrastingly poor carbonate preservation record of the deeper Site 929 (4358 m water depth, at present exposed to Antarctic Bottom Water) is frequently interrupted by phases of good carbonate preservation. These results indicate that the depth of the calcite lysocline was mainly tied to present level (ab. 4200 m water depth), and sometimes even dropped to water depths greater than 4360 m due to even more enhanced circulation. Surprisingly the expansion of NADW is not clearly reflected by an increase in current speed as shown by continuously fine terrigenous grain size.

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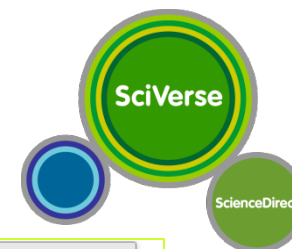


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Thermodynamics of the O_2/O^{2-} redox couple in molten (LiCl + KCl + Li_2O) systems

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Abstract

Activity coefficients of oxide ion were determined by the measurements of the standard formal potential of O_2/O^{2-} with a boron-doped diamond (BDD) electrode in molten (LiCl + KCl): LiCl:KCl = (58.5:41.5 (eutectic), 65:35, 70:30, 75:25) mol% at $T = (673 \text{ to } 803) \text{ K}$. The activity coefficient decreases with the increase of the LiCl content in the melt: (18.7 ± 1.5 , 7.7 ± 1.0 , 4.1 ± 0.4 , and 1.6 ± 0.1), respectively, at $T = 773 \text{ K}$ in each melt. The result is explained by the attractive force between Li^+ and O^{2-} which is stronger than that between K^+ and O^{2-} .

Keywords: LiCl - KCl; Boron-doped diamond electrode; Oxygen evolution; O_2/O^{2-} potential; Activity coefficient

Article Outline

1. Introduction
2. Experimental
3. Results and discussion
 - 3.1. Standard formal potential of O_2/O^{2-}
 - 3.2. Gibbs free energy, entropy, enthalpy of formation of Li_2O

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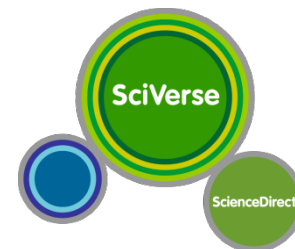
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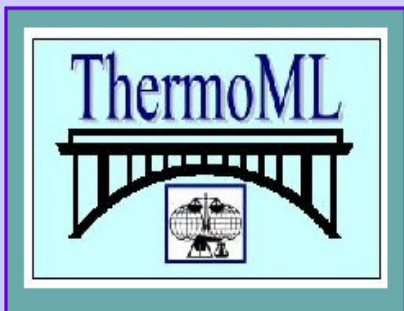
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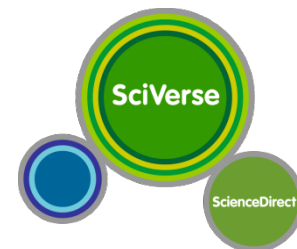
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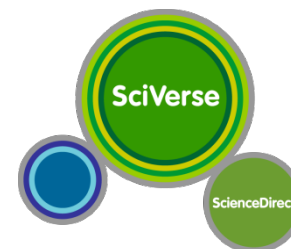
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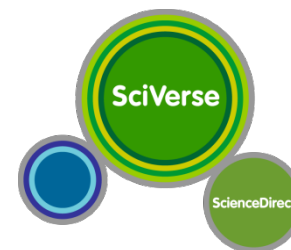
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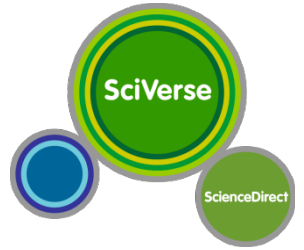
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